

FIG. 1

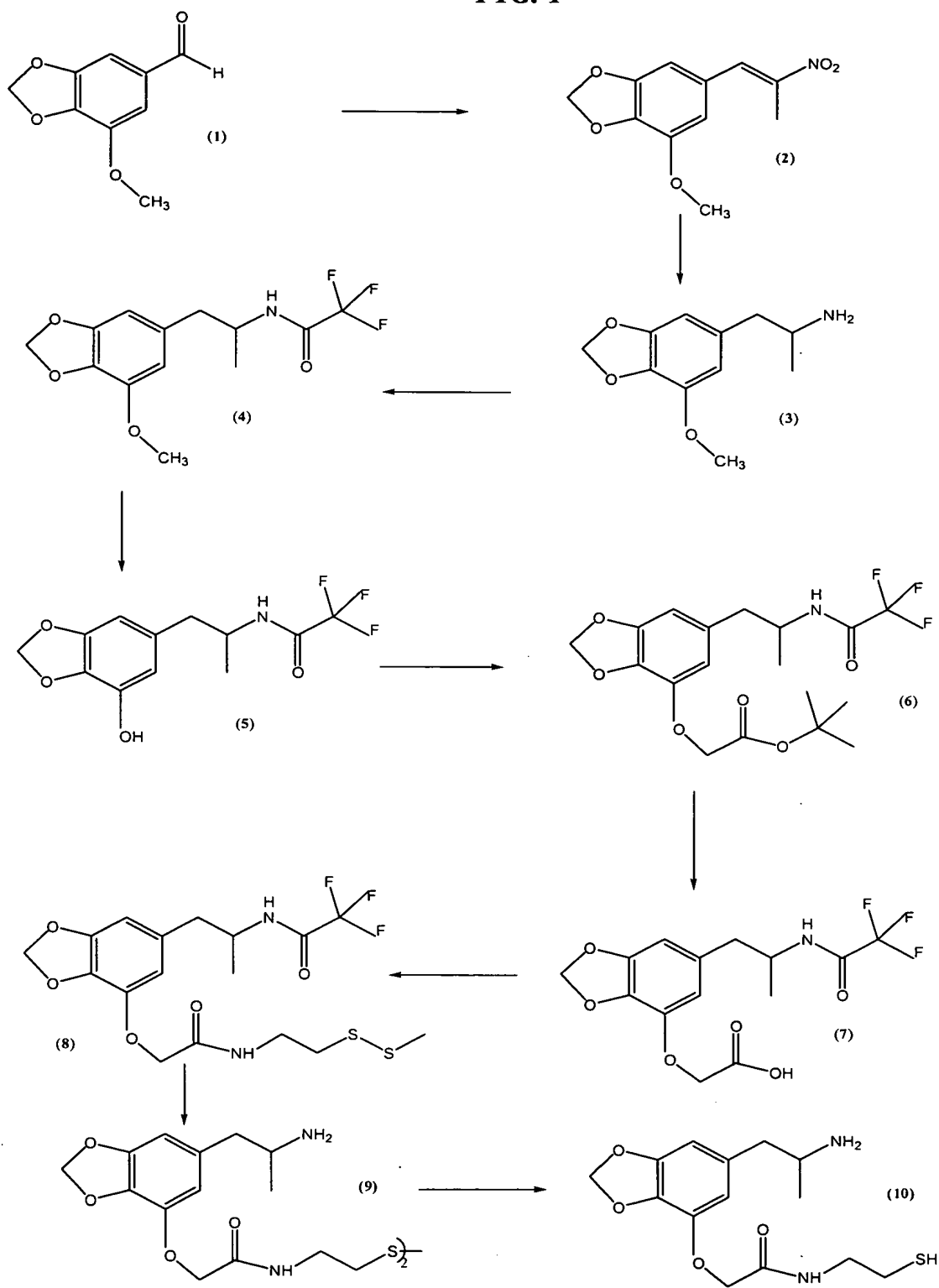


FIG. 2

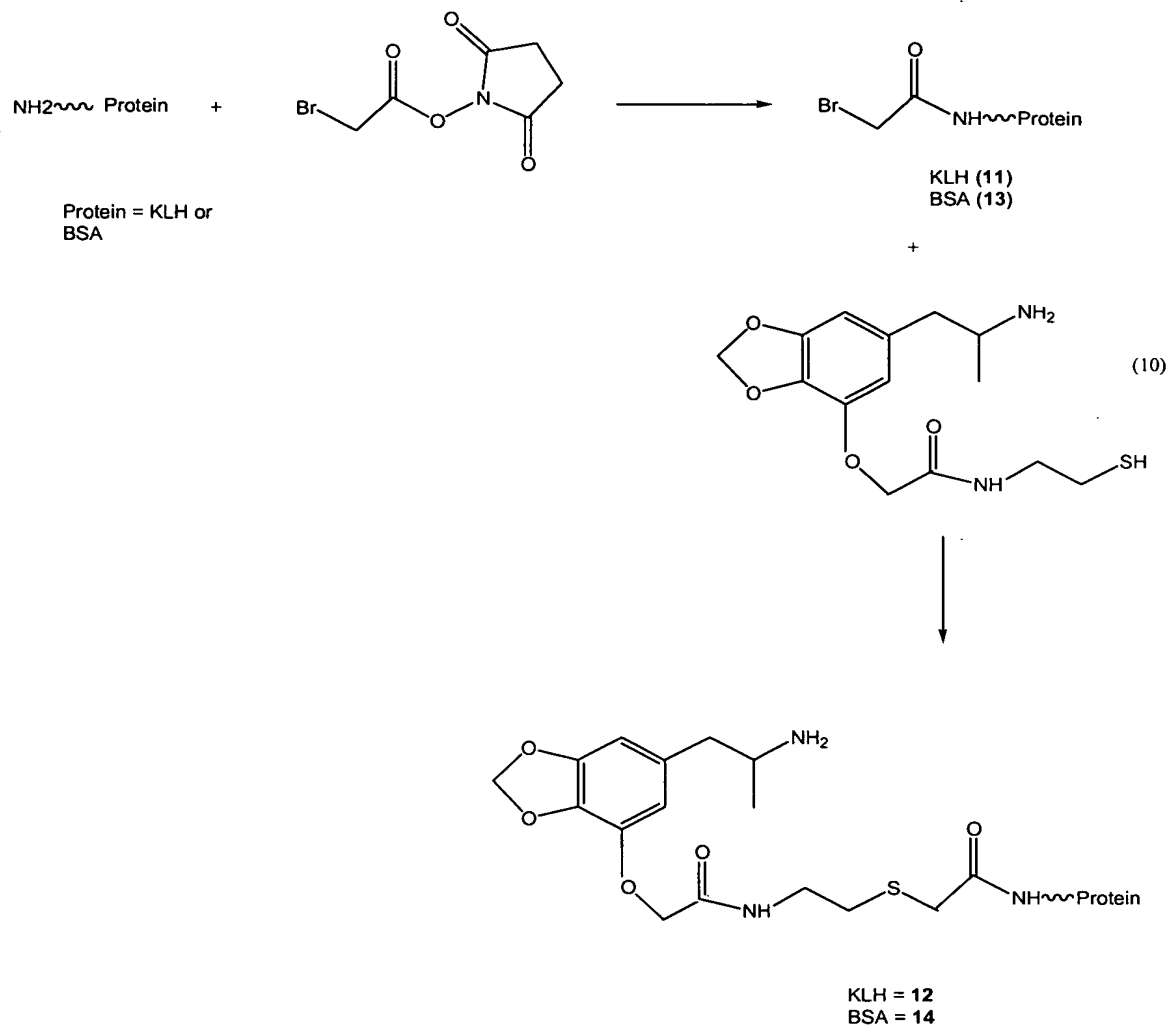
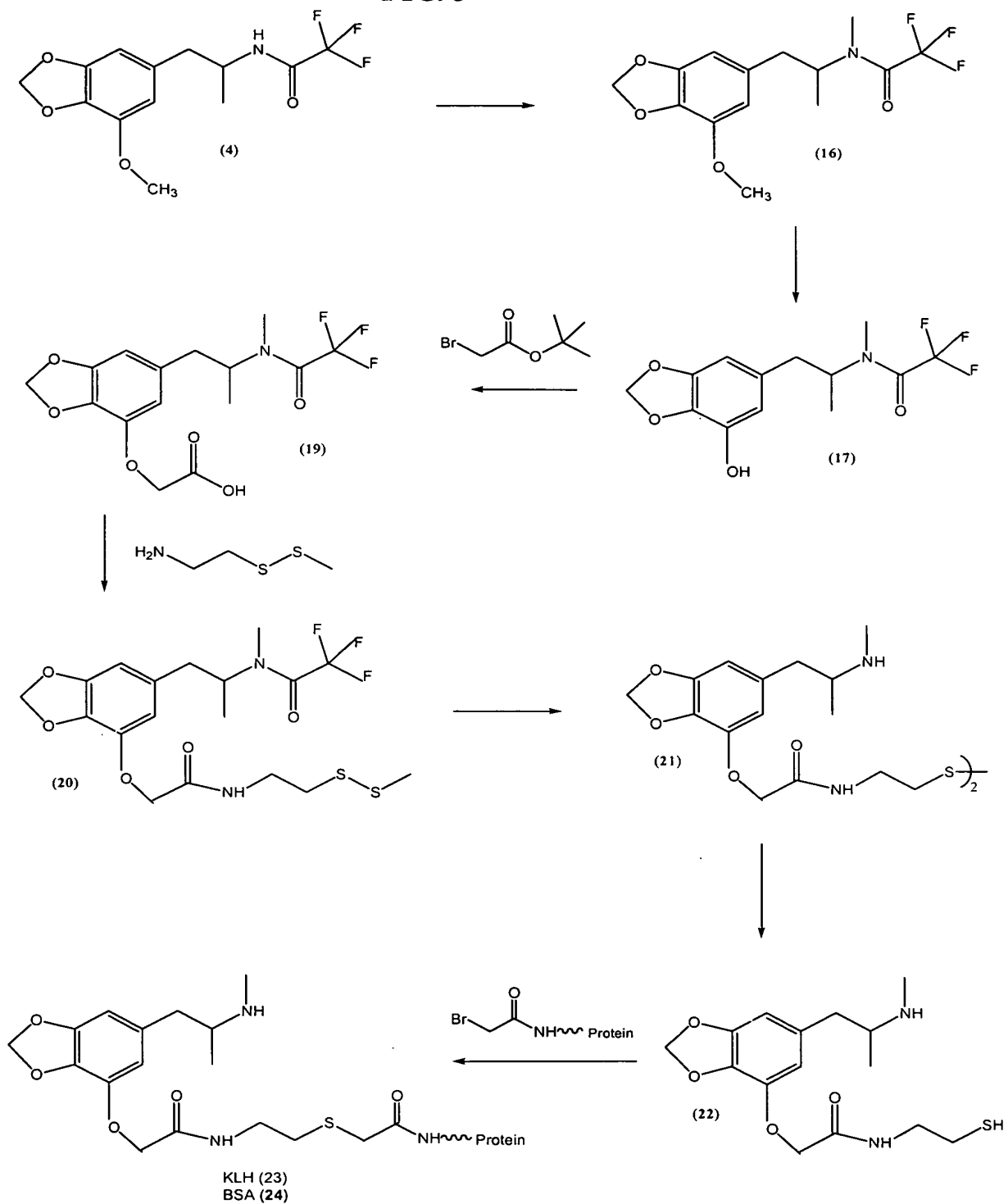


FIG. 3



The reaction scheme illustrates the synthesis of compound 27 from compound 19. The process involves several steps:

- Compound 19 (a 2,3-dihydrobenzofuran derivative with a trifluoroacetate group) is converted to compound 25 (where the trifluoroacetate is replaced by a tert-butyl ester).
- Compound 25 is then converted to compound 25a (where the tert-butyl ester is replaced by a pyrrolidine-2-carboxylate group).
- Compound 25a is converted to compound 26 (where the pyrrolidine-2-carboxylate is replaced by a 3-(2-aminopropyl)-2-oxopyrrolidine-5-carboxylate group).
- Compound 26 is converted to compound 27 (where the 3-(2-aminopropyl)-2-oxopyrrolidine-5-carboxylate is replaced by a 2-aminopropyl group).

The reagent structure shown is 3-(2-aminopropyl)-2-oxopyrrolidine-5-carboxylate, which is used in the conversion of 25a to 26.

FIG. 5

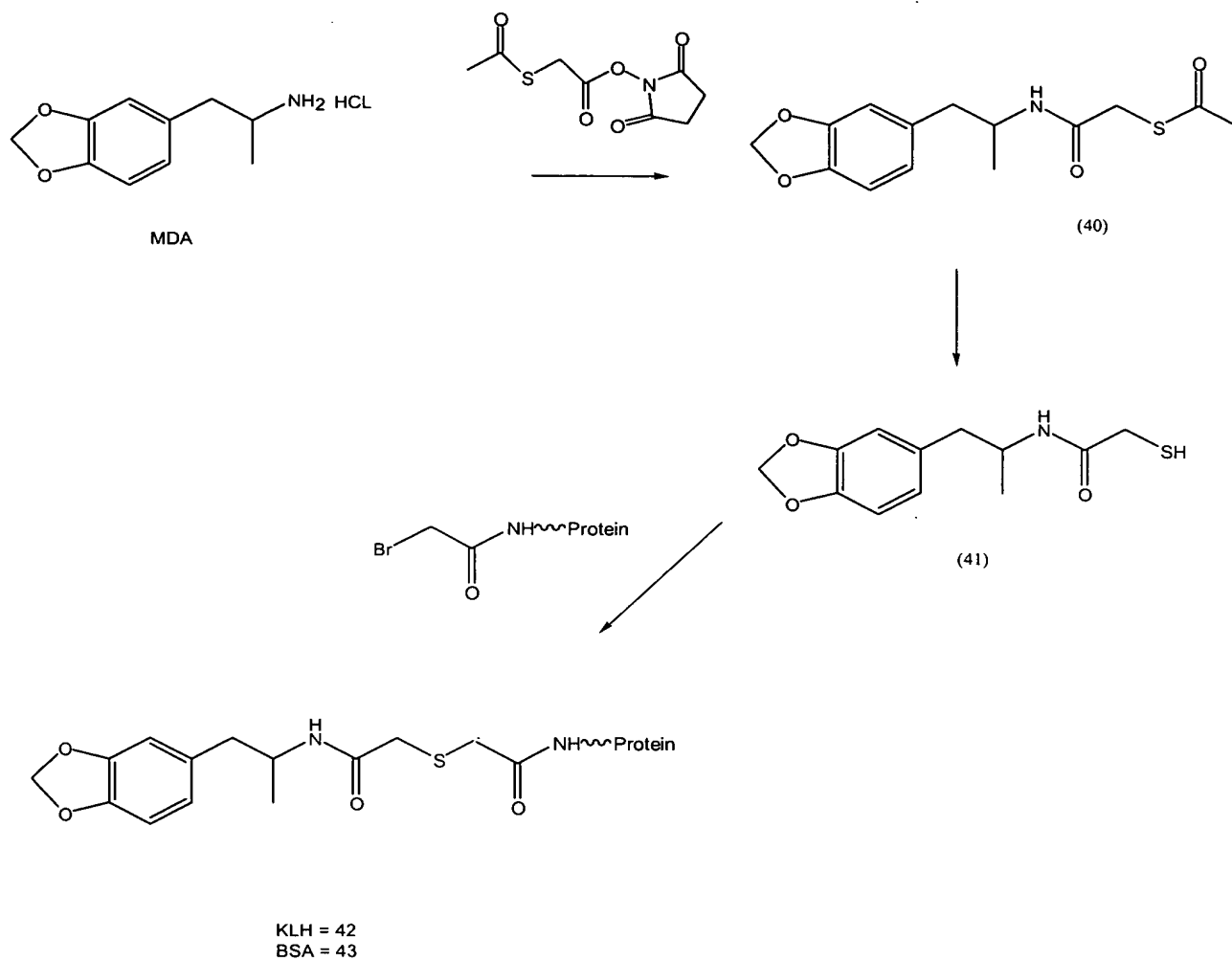


FIG. 7

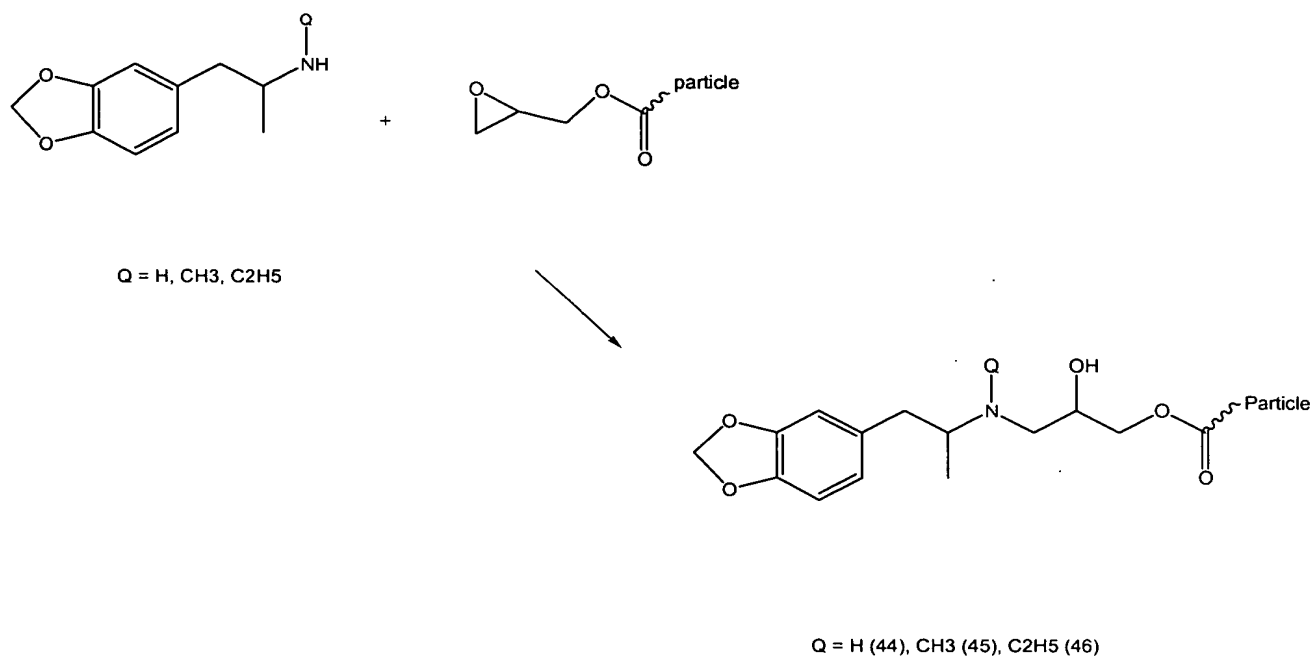


FIG. 8

